



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,387	06/24/2003	Sandeep Bhatia	14957US01	1556
23446 7590 03/14/2007 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661			EXAMINER YENKE, BRIAN P	
			ART UNIT	PAPER NUMBER
			2622	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/602,387

Applicant(s)

BHATIA ET AL.

Examiner

BRIAN P. YENKE

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE 16 Feb 07/Amendment 18 Dec 06.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 and 22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 8 and 22 is/are rejected.
- 7) ☒ Claim(s) 6-7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 18 Dec 06 has been entered.

Response to Arguments

2. Applicant's arguments filed 18 Dec 06 have been fully considered but they are not persuasive.

Applicant's Arguments

a) Applicant states that Konuma doesnot teach a decoder for decoding a video sequence, wherein the video sequence comprises to a first one or more frames associated with old display parameters, and a second one or more frames associated with new display parameters.

Examiner's Response

a) The examiner disagrees. Konuma discloses a system which may receive/decode/display various signals of various formats which meets old/new frame parameters. Thus if a user is viewing a current program (old parameter) and switches channels or desires a PIP display the new display/programs (new parameters) would also be decoded meeting the limitation.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious

Art Unit: 2622

at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5, 8 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Konuma, US 7,046,302 in view of

In considering claims 1-3, 8 and 22,

Konuma discloses the reception of MPEG2 video signals where an MPEG2 video signal includes the parameters associated with the frames of the signal contained in the sequence header (Fig 11, see description relating to Fig), where MPEG2 also inherently includes the presentation time stamp (timing data, claim 7). Konuma discloses that the received signals can be of a variety of types and the MPEG signal includes the type of signal (i.e. 16:9 or 4:3 as well as additional parameters) which is included in the encoded signal which is then decoded and used by the receiver to scale/adjust the decoded signal for display. Konuma discloses a decoder 24, a microprocessor 5 (determines type of signal, i.e. 16:9, 4:3) along with a picture processing portion 7 (scaler) and picture memory 11. Thus when receiving a plurality of input sources of different settings/parameters, the decoder/display engine will account for the old/new parameters accordingly in order to properly display the received image in accordance with its own settings as shown (Fig 12-15).

(Regarding the 1st/2nd buffers)

Konuma discloses a picture memory 11. However, Konuma does not explicitly recite the use of a first/second buffer. Konuma discloses a system where the signals are stored (multiple) in picture memory 11. The use of multiple buffers/registers in a memory to store new/old or current/previous data is a conventional feature in system in order to provide quick access to data presently being utilized and the data which is upcoming, thus the examiner takes "OFFICIAL NOTICE" regarding the use of a 1st/2nd buffer in a memory for the advantages as noted above.

The examiner relies upon Luna et al., US 7,151,800, which discloses the use of two or more buffers from a single decoder (Figs 8-9) in order to facilitate the decoding operation.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Konuma which discloses/decoding multiple video signals (i.e. old/new) by facilitating the

Art Unit: 2622

decoding operation of such signals by using multiple buffers as done by Luna for the advantages as noted.

In considering claim 4,

Konuma as stated above discloses that the microprocessor and decoder both send information/signals to picture processing 7 (fig 1) including the frames/parameters of the frames.

In considering claim 5,

Konuma does not explicitly recite the concept of displaying frames after a vsync signal or sending the signal to the display at a time prior to the vsync signal, however this is conventional practice so the user may view one frame after another in succession, where one frame is displayed/started after the vsync of the previous frame, and thus would need the signal to be send to the controller prior to the vsync in order to display the images successively, thus the examiner takes "OFFICIAL NOTICE" regarding such limitations, since they are notoriously well known in the art.

Allowable Subject Matter

4. Claims 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Art Unit: 2622

or faxed to:

(571)-273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

General information about patents, trademarks, products and services offered by the United States Patent and Trademark Office (USPTO), and other related information is available by contacting the USPTO's General Information Services Division at:

800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS).

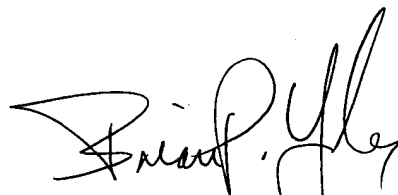
PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in

Art Unit: 2622

electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.



B.P.Y.
12 March 2007



BRIAN P. YENKE
PRIMARY EXAMINER